

Geological Report

Alpers #1-19

Sec. 19 T22S R11W

15-185-23409

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American Warrior, Inc.

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General Data

Drilling Contractor:	Petromark Drilling Co. Rig #2
Spud Date:	November 14, 2006
Completion Date:	November 21, 2006
Elevation:	1827' Ground Level 1832' Kelly Bushing
Casing:	224' 8 5/8" surface casing 3692' 5 1/2" production casing
Samples:	10' wet and dry, 3000' to RTD
Drilling Time:	2900' to RTD
Electric Logs:	Wedge - Log Tech "Craig McLaughlin" Dual Induction, Compensated Neutron Density, Microlog and Sonic
Drillstem Tests:	One, Trilobite Testing Inc. "Zach Stover" Bottom hole test
Problems:	Mud pump, liner cap leaking

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Structural Comparison

Formation	American Warrior		Western Petroleum
	Alpers #1-19	LD Drilling #1 Alpers	Co. #1 Alpers
Anhydrite	1266	1261	1260
Plattsmouth	-1204	-1203	
Heebner	-1263	-1264	-1259
Toronto	-1283	-1284	
Douglas	-1298	-1297	
Brown Lm.	-1401	-1399	
Lansing	-1423	-1421	-1420
BKc	-1679	-1659	-1678
Viola	-1684	-1695	-1691
Simpson	-1744	-1743	-1737
Arbuckle	-1803	-1799	-1791

Sample Zone Descriptions

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LKc C-zone (3298', -1466):

Ls – Fine to Medium crystalline with fair inter-crystalline porosity. **Show of free gassy oil, fair odor, 270 units hotwire.**

LKc E-zone (3332', -1500):

Ls – Fine crystalline with poor inter-crystalline porosity, oil stained and saturated in porosity. **Slight show of free oil, slight odor, 200 units hotwire.**

LKc H-zone (3393', -1561):

Ls – Fine to Medium crystalline, Fossil oolites with poor oomoldic porosity. Slight oil stain in porosity, no show of free oil, **230 units hotwire.**

LKc I-zone (3454', -1622):

Ls – Fine crystalline, Fossil oolites with poor oomoldic and fine inter-crystalline porosity. Slight oil stain and saturation in porosity, no show of free oil, **200 units hotwire.**

Viola (3535', -1703):

Ls-Sl. Dolo – With very poor pinpoint vuggy porosity. Slight oil stain in porosity, no show of free oil, mostly barren, **210 units hotwire.**

Simpson (3584', -1752):

Sandstone – Quartz, Fine grained with poor inter-granular porosity, oil stained and saturated in the porosity. Dolomitic with poor pinpoint vuggy porosity.

Arbuckle (3638', -1806):

Dolo – Fine crystalline with poor pinpoint vuggy porosity, oil stain in porosity, oil is heavy and dead. Slight chert, slight sand.

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Drill Stem Tests

Trilobite Testing Inc.

Zach Stover

DST #1 Lansing-Kansas City C-E zone
Interval (3288' – 3340') Anchor Length 52'
IHP – 1583 #
IFP – 15" – B.O.B immediately 49-70 #
ISI – 30" – No Blow "Testing Head Loose" 500 #
FFP – 30" – B.O.B. immediately, GTS 10 min. 53-129 #
FSI – 30" – B.O.B. in 25 min. 503 #
FHP – 1538 #

Recovery: Gas to Surface in 25 Minutes
60' OSM 3% Oil
60' GSY MCO 40% Oil
60' GSY WMCO 35% Oil, 30% Water
60' GSY OMCW 12% Oil, 18% Water
60' WM 50% Oil

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Summary

The Alpers #1-19 well ran structurally similar to its offset wells. Many shows of oil were found throughout the Lansing-Kansas City along with the Viola, Simpson Sand, and the Arbuckle. A drill stem test was performed and included the Lansing-Kansas City zones C thru E, the test was positive recovering gas to surface and approximately 55 feet of gassy oil. The decision was made after thoroughly examining the data collected during drilling and logging to run production casing to further evaluate the Alpers #1-19.

Recommended Perforations

LKc C-zone	3298' – 3300'	Simpson Sand: could not be distinguished on the log but did have a show of oil. Possibly 3598' – 3607'
LKc E-zone	3327' – 3334'	
LKc H-zone	3392' – 3394'	
LKc I-zone	3423' – 3425'	
Viola	3522' – 3526'	

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